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A Humidification

With device turned off, remove and fill chamber with water.

. (a) Lift humidifier door until it locks in place. Do not force door higher than the locked position. (b) Grasp front of chamber and slide toward you.

2. (a) Gently push tab located inside round opening on top of chamber. (b) Separate top and bottom of chamber.

3. Fill bottom chamber with distilled water.

4. Observe maximum fill lines located on sides of chamber.

5. Do not overfill.

Reassemble the chamber by placing the hinges on lid over the two tabs on back of chamber. Close lid until it locks in place with an audible click. Insert filled chamber into humidifier.

On the Standby screen, if a humidifier is connected, you can select Preheat so humidifier preheats before therapy is delivered.



Connection to oximetry F





6 Guidelines for ventilation set-up

lnitial settings	IPAP = 8 to 10 cmH ₂ O, EPAP = 4 cmH ₂ O and RR = 10 to 12 BPM		
IPAP	Increase IPAP if the patient wants more air, targeting patient tidal volume at 8 ml/Kg of ideal weight		
EPAP	 without SAS: 4 – 5 cmH₂O with SAS: increase EPAP to remove obstructive apnea events with intrinsic PEP (stable chronic COPD): 5 – 6 cmH₂O 		
BPM	Set to 2 – 3 BPM und	er patient's spontaneou	us frequency
Rise time	Obstructive patients prefer short rise time: from 1 to 4 (100 ms to 400 ms) Restrictive patients prefer long rise time: from 3 to 6 (300 ms to 600 ms) Set Ti between 25% and 33% for obstructive patients Set Ti between 33% and 50% for restrictive patients (refer to table opposite)		
Ti			
	онѕ	COPD	Other restrictive diseases (NMD, etc.)
Vt target	OHS 8 to 10 ml/kg of ideal	COPD body weight (refer to t	Other restrictive diseases (NMD, etc.) table opposite)
Vt target IPAP window (IPAPmin and IPAPmax)	OHS 8 to 10 ml/kg of ideal Allow a wide range of pressure variation to ensure the right pressure at the right time. • IPAPmin = EPAP • IPAPmax = 25 - 30 cmH ₂ O	COPD body weight (refer to to Allow a more restrictive pressure window to combine comfort and efficacy. • IPAPmin = comfortable IPAP • IPAPmax = IPAPmin + 5	Other restrictive diseases (NMD, etc.) table opposite) Allow a more restrictive pressure window to combine comfort and safety. • IPAPmin = efficient IPAP • IPAPmax = IPAPmin + 5

Check patient arterial blood gases (PaCO, and PaO,) and oxygen saturation (SpO,)

Important: Guidelines are intended to serve only as a reference. They shall be used only in conjunction with the instructions and/or protocol set forth by the physician and institution in which the assist device is being used. The guidelines are not intended to supersede established medical protocols.

Conversion	table to	set the in	spiratory	time for	controlled	breaths

Set back up breath rate (BPM)	I/E 1/3, Ti/Ttot 25%	I/E 1/2, Ti/Ttot 33%	I/E 1/1, Ti/Ttot 50%
10	1.5 s	2.0 s	3.0 s
11	1.4 s	1.8 s	2.7 s
12	1.3 s	1.7 s	2.5 s
13	1.2 s	1.5 s	2.3 s
14	1.1 s	1.4 s	2.1 s
15	1.0 s	1.3 s	2.0 s
16	0.9 s	1.3 s	1.8 s
17	0.9 s	1.2 s	1.7 s
18	0.8 s	1.1 s	1.6 s
19	0.8 s	1.1 s	1.5 s
20	0.8 s	1.0 s	1.5 s
21	0.7 s	1.0 s	1.4 s
22	0.7 s	0.9 s	1.3 s
23	0.7 s	0.9 s	1.3 s
24	0.6 s	0.8 s	1.2 s
25	0.6 s	0.8 s	1.2 s

Set the inspiratory time in seconds: Ti (Second) = 60/Respiratory rate x % Ti

Conversion table to set the target tidal volume in relation to the ideal weight

Height	Calculated ideal weight (if BMI = 23)	Target Vte if 8 ml/kg	Target Vte if 10 ml/kg
1.50 m	52.0 kg	410 ml	520 ml
1.55 m	55.0 kg	440 ml	550 ml
1.60 m	59.0 kg	470 ml	590 ml
1.65 m	62.5 kg	500 ml	620 ml
1.70 m	66.5 kg	530 ml	660 ml
1.75 m	70.5 kg	560 ml	700 ml
1.80 m	74.5 kg	600 ml	740 ml
1.85 m	78.5 kg	630 ml	780 ml
1.90 m	83.0 kg	660 ml	830 ml

Calculated with an ideal Body Mass Index of 23 kg/m² (BMI = weight/height²)



Set-up guide





BiPAP A30

Getting started

Device navigation



- Display screen
 Perform action specified on screen (humidifier setting, cancel action or exit menu)
- 3 Navigate menus or change settings
- Perform action specified on screen (activate ramp, select/modify/ confirm parameters)
- 5 Audio pause button
- 6 Start/stop button





- Press 🕲
- To keep power on but stop the blower, select 'Standby'
- Then select OK
- To turn power off, select 'Power Off'
- Then select OK



Main screen



SD Card error

(bad memory card inserted)

- External battery has less than 10 minutes left
- External battery is empty

Menu: Settings and alarms

	Mode	CPAP, S, S/T, PC, T		
Flex Lock (only in S mode)		On (patient cannot adjust Flex level) Off (patient can adjust Flex level)		
	Flex (only in S mode)	Off/1/2/3		
	AVAPS	On/off		
	AVAPS rate	From 0.5 cmH $_2$ O/min up to 5 cmH $_2$ O/min per 0.5 cmH $_2$ O/min step		
	Tidal volume (only when AVAPS is enabled)	200 - 1500 ml per 10 ml step		
	IPAP max (only when AVAPS is enabled)	IPAPmin - 30 cmH ₂ O per 0.5 cmH ₂ O step		
	IPAP min (only when AVAPS is enabled)	4 - IPAPmax per 0.5 cmH ₂ O step		
	EPAP	4 - 25 cmH ₂ O per 0.5 cmH ₂ O step		
	Breath rate	0 to 40 bpm (4-40 bpm for T mode)		
	Inspiratory time	0.5 to 3 sec. per 0.1 sec. step		
	Rise time lock	On (patient cannot adjust rise time) /Off (patient can adjust rise time)		
	Rise time	1 (fastest) to 6 (slowest)		
	Ramp length	0 to 45 minutes per 5 minutes step		
	Ramp start pressure	From 4 cmH $_2$ O to prescribed EPAP per 1 cmH $_2$ O step		
	System One humidification	On (System One humidity control)/ Off (classic mode)		
	Humidifier	1 (coolest) to 5 (hottest)		

Menu: Settings and alarms (cont.)

Tubing type lock	On (patient cannot adjust tubing size diameter)/Off (patient can adjust tubing size diameter)
Tubing type	15 mm/22 mm
System One resistance lock	On (patient cannot set mask type)/ Off (patient can set mask type)
System One resistance (mask type)	0, X1, X2, X3, X4 or X5
Circuit disconnect alarm	Off; 15 or 60 sec.
Apnea alarm	Off; 10, 20 or 30 sec.
Low tidal volume alarm (only when AVAPS is enabled)	On/off
Low minute ventilation alarm	Off; 1 to 99 lpm
High respiratory rate alarm	Off; 4 to 60 BPM

Menu: Alarm and Event Logs

Alarm Log

The **alarm log** lists the 20 most recent alarms or messages that appeared on the device display.

Event Log

The **event log** displays a list of all events that have occurred, in chronological order.

Menu: Options



Under 'Options', you have access to the following parameters:

Menu access	Full (device unlocked)/Limited (device locked)
Detailed view	On (monitored data appear on the main screen)/Off (no monitored data on screen, but time and date)
Language	You have the choice between 22 different languages
Pressure units	cmH ₂ O/hPa
Breath indicator	Patient (spontaneous breath) /machine (controlled breath)
Keypad lock	On (buttons are inactive)/off (buttons are active)
Keypad backlight	On/off
LCD brightness	1 (darkest) to 10 (lightest)
Screen saver	Dim (backlight is decreased)/Breath (black screen, but manometer and breath indicator are visible)/ Off (no screen saver)
Date & time format	Date and time settings
Blower hours	Number of hours the blower has been active (resettable)
Therapy hours	Number of hours the patient receives therapy (resettable)